

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P582597

Luminaire Tested: **HCC6S45D010SL-HM64560835-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S45D010SL-HM64560835-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

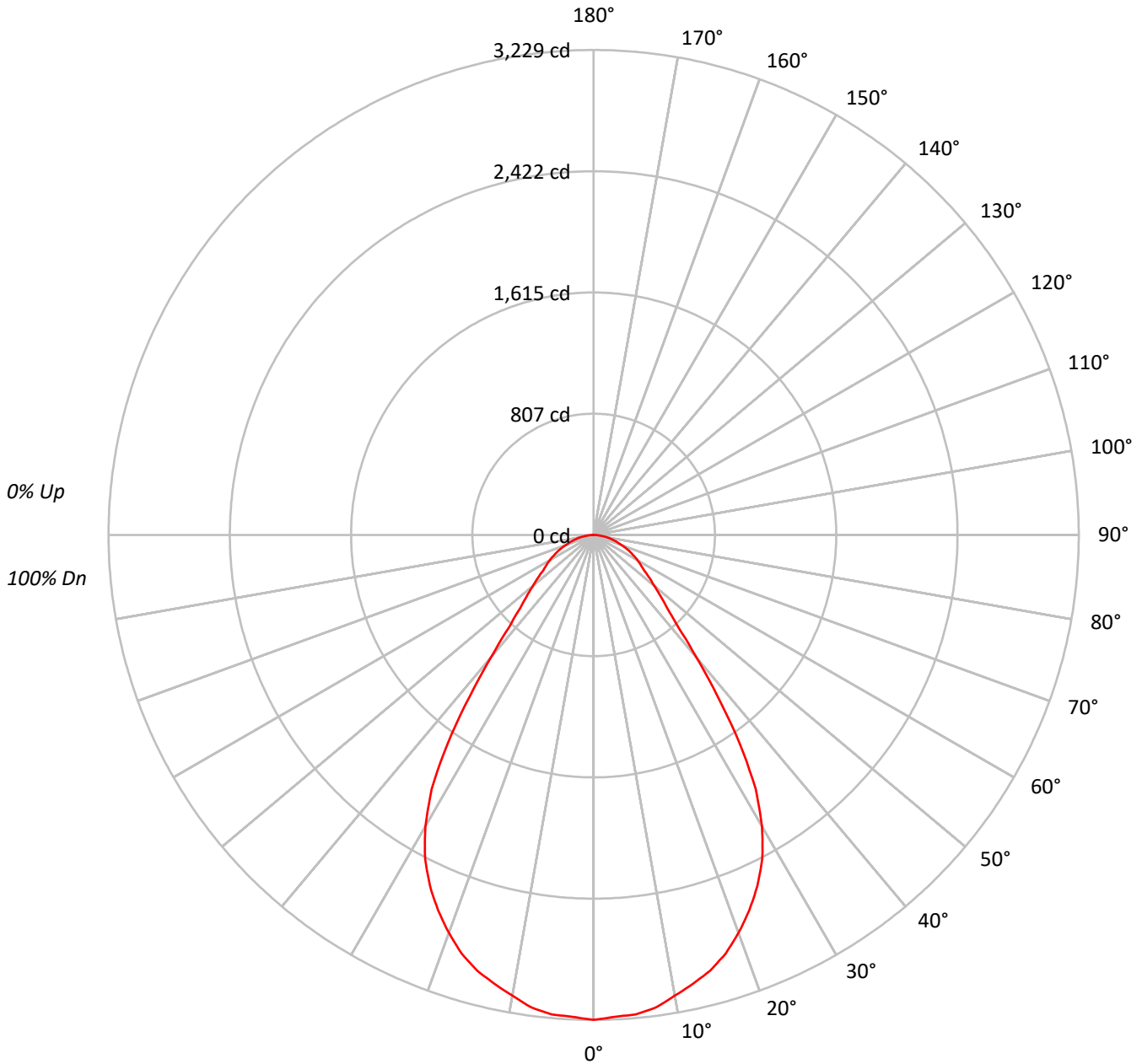
Lumens per Lamp: N/A
Luminaire Lumens: 4754.6 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | 0 | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 96 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | 89 | 89 | 89 |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 81 | 79 | 79 | 79 | 79 |
| 3 | 97 | 88 | 82 | 76 | 94 | 87 | 81 | 76 | 84 | 79 | 75 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | 70 | 70 | 70 |
| 4 | 90 | 80 | 73 | 68 | 88 | 79 | 73 | 67 | 77 | 71 | 67 | 75 | 70 | 66 | 73 | 68 | 65 | 63 | 63 | 63 | 63 |
| 5 | 84 | 74 | 66 | 61 | 82 | 73 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 63 | 59 | 57 | 57 | 57 | 57 |
| 6 | 79 | 68 | 61 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 55 | 64 | 58 | 54 | 62 | 58 | 54 | 52 | 52 | 52 | 52 |
| 7 | 74 | 63 | 55 | 50 | 73 | 62 | 55 | 50 | 61 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 49 | 48 | 48 | 48 | 48 |
| 8 | 70 | 58 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 45 | 44 | 44 | 44 | 44 |
| 9 | 66 | 54 | 47 | 43 | 65 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | 40 | 40 | 40 |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 | 37 | 37 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 176998 |
| 5° | 176342 |
| 10° | 173399 |
| 15° | 170347 |
| 20° | 164462 |
| 25° | 155942 |
| 30° | 141845 |
| 35° | 113334 |
| 40° | 75627 |
| 45° | 53897 |
| 50° | 44920 |
| 55° | 39148 |
| 60° | 36993 |
| 65° | 34829 |
| 70° | 31993 |
| 75° | 29886 |
| 80° | 27181 |
| 85° | 23839 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 303.1 | 6.4 |
| 10°-20° | 842.8 | 17.7 |
| 20°-30° | 1177.7 | 24.8 |
| 30°-40° | 1037.4 | 21.8 |
| 40°-50° | 560.4 | 11.8 |
| 50°-60° | 374.7 | 7.9 |
| 60°-70° | 265.6 | 5.6 |
| 70°-80° | 149.3 | 3.1 |
| 80°-90° | 43.5 | 0.9 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 2323.5 | 48.9 |
| 0°-40° | 3360.9 | 70.7 |
| 0°-60° | 4296.1 | 90.4 |
| 0°-90° | 4754.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4754.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3229 | |
| 5° | 3204 | 303 |
| 15° | 3002 | 843 |
| 25° | 2578 | 1178 |
| 35° | 1694 | 1037 |
| 45° | 695 | 560 |
| 55° | 410 | 375 |
| 65° | 268 | 266 |
| 75° | 141 | 149 |
| 85° | 38 | 44 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 3228.7 |
| 2.5° | 3211.4 |
| 5° | 3204.5 |
| 7.5° | 3173.6 |
| 10° | 3115.0 |
| 12.5° | 3060.0 |
| 15° | 3001.5 |
| 17.5° | 2922.3 |
| 20° | 2819.1 |
| 22.5° | 2705.4 |
| 25° | 2578.1 |
| 27.5° | 2430.1 |
| 30° | 2240.8 |
| 32.5° | 2006.8 |
| 35° | 1693.5 |
| 37.5° | 1352.7 |
| 40° | 1056.8 |
| 42.5° | 832.9 |
| 45° | 695.2 |
| 47.5° | 602.3 |
| 50° | 526.7 |
| 52.5° | 464.6 |
| 55° | 409.6 |
| 57.5° | 371.7 |
| 60° | 337.4 |
| 62.5° | 302.9 |
| 65° | 268.5 |
| 67.5° | 234.0 |
| 70° | 199.6 |
| 72.5° | 168.7 |
| 75° | 141.1 |
| 77.5° | 113.5 |
| 80° | 86.1 |
| 82.5° | 61.9 |
| 85° | 37.9 |
| 87.5° | 17.2 |
| 90° | 0.0 |

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)